

POWERED BY **Dialog**

**Slide drive unit of mechanical press which uses link - has second links whose lower ends are individually coupled to plunger set on slide and guided by frame of press machine**

**Patent Assignee: AIDA ENG LTD**

#### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 10109193	A	19980428	JP 96283272	A	19961004	199827	B

**Priority Applications (Number Kind Date):** JP 96283272 A ( 19961004)

#### Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 10109193	A		4	B30B-001/14	

#### Abstract:

JP 10109193 A

The unit includes connecting rods (13) whose large ends are coupled to the crankshaft (12). A first elevatable slider (14) is guided vertically in a groove provided to the frame of the machine press. One end of each first link (21,21') is coupled to the small end of each connecting rod with the first slider (14).

A second reciprocating slider (15) is guided to move along a groove of a turn body (16) provided to the frame. One end of each second link (22) is coupled to the second slider from which one end of the first link is connected. The other end of each second link is coupled to the plunger (6) which is set on slide and guided by the frame of the press machine.

**ADVANTAGE** - Enables simultaneous change of stroke of slide and die height while driving press. Enables correction of dead spot position without sharply changing slide stroke and die height while driving.

Dwg.1/3

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Coupling pins (15,17,27)

Link (16)

Fulcrum pins (18,24)

Bell crank (19)

Upper arm (19A)

Fore arm (19B)

Coupling link(22) Inner link (21)

Bracket (23)

Horizontal arm (25)

Under arm (26)

Slide (28)

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machine and the partial three-dimensional drawing of the press machine.

Slide (3)

Toggle link (4)

Arm (6A)

Center coupling pin (7)

Crankshaft (8)

Slider (9)

Connecting rod (10)

Driving links (11)

Connected links (12)

Coupled fulcrums (13)

Worm wheel (15)

Arm (16)

Pin (17)

Driving link (19)

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